PB-216 901

MUNICIPAL WATER FACILITIES INVENTORY AS OF JANUARY 1, 1958. ALASKA. A COOPERATIVE STATE-FEDERAL REPORT

Public Health Service
Washington, D. C.

1958

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ALASKA

MUNICIPAL WATER FACILITIES

Inventory as of January 1, 1958

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Public Health Service

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NOTES REGARDING TABULATIONS

GENERAL

This volume is one of nine which, taken together, comprise an inventory of public water supply facilities in the United States as of January 1, 1958. The listing includes all facilities serving places having a 1950 population of 100 or more which have been reported by the respective State Departments of Health. In a few States, places smaller than this size have been reported, and in one or two others the minimum size has been somewhat greater. The listing is alphabetic by name of place within the State. At the end of each State listing there appear the names of all places having a 1950 population of 100 or more but which were not reported as having a community water supply. Persons desiring more detailed information about water supply facilities in the larger communities are referred to PHS Publication No. 661, Municipal Water Facilities Communities of 25,000 Population and Over--Continental United States and Territorial Possessions--As of January 1, 1958. The data on these larger communities in this volume are extracted from that publication.

The purpose of this inventory is to furnish up-to-date information on all water facilities for the use of industries and other private agencies and all levels of government. The Public Health Service will assist in making this material more useful through the publication of special papers based on statistical analysis of the data.

In the following discussion, each individual item listed is defined as an "entry." An "x" in the listing indicates that the data requested were unknown. A dash, "-" signifies the item does not apply. A triangle "△" shows information was not supplied.

Detailed Notes for Columns

Column 1 - Community or District

Entries marked with a star have facilities which serve one or more additional communities.

Column 2 - 1950 Population, Estimated Population Served

Top-line Entry - 1950 population (U. S. Bureau of the Census where available).
Bottom-line Entry - estimated total number of people served by the facility. Data in parentheses indicate population served by some other facility.

Column 3 - Year Operation Started

Top-line Entry - Present Supply . . . the year the present source of supply was put into service, or the latest year during which a new or additional source was developed.
Bottom-line Entry - Present Treatment Plant . . . the year the present treatment plant was put into operation, or the date of the latest major revision or addition.

Column 4 - Ownership

M - Public (Federal, State, county, municipal, district, etc.)
P - Private (private corporations, companies, etc.)

Column 5 - Number of Services, Number of Meters

Top-line Entry - Number of accounts served by the facility.
Bottom-line Entry - Number of meters used in the water system.

Column 6 - Laboratory Control

Refers to control by a plant laboratory, not to samples analyzed elsewhere.
C - Chemical (other than chlorine residual)
B - Bacteriological
N - None

Column 7 - Source of Supply

The source or sources from which water is obtained. Specific lakes or streams are named when possible.

Column 8 - Safe Yield, Impounded (Surface) Maximum Dependable Draft, (Ground)

Top-line Entry - Safe Yield, Surface, the maximum safe daily yield which can be secured from the source of water supply based on the driest period of record.

Bottom-line Entry - Maximum Dependable Draft, Ground Water, the maximum dependable 24-hour draft of a well field or fields, or other ground source, which can be sustained for a period of high demand through five days. (Number of wells now in use may have no bearing on this figure.)

The designation "Unl." signifies a relatively large or unlimited supply.

Column 9 - Rated Plant Capacity and Average Plant Output

Top-line Entry - Rated Capacity, the maximum rated daily capacity on the basis of filters, pumps, or other limiting factor.

Bottom-line Entry - Average, the average daily output of the facility.

Column 10 - Treatment

Where the treatment is at all extensive, one or more symbols identifying the general type or function of the plant precede those used to identify the particular treatment plant or method. In general, a plant is not classified as a "purification plant" unless filters having fine granular material (sand or anthracite) are used.

Principal treatment features, identified by capitalized letters, are further described by lower case letters following them. In general, the symbols are arranged in the order in which treatment occurs. Combination units performing more than one function in a single structure are denoted by enclosing the appropriate symbols in parentheses. Enclosures in brackets indicate parallel or alternate operation.

Treatment methods are coded as follows:

Type of Plant

P - Purification
H - Softening
I - Iron or Manganese removal

Treatment or Device

A - Aeration
- Ac ..contact beds or trays, coke or other material
- Am..patented aerator
- As ..spray aerator
- At...overflow trays cascade or other splash aerator
- Ao ..other type aerator

C - Chemical dosage for coagulation or softening
- Ca ..alum
- Ci...iron salts
- Cl...lime
- Cs ..soda ash
- Ct...activated silica
- Co ..other coagulant

D - Disinfection
- Dc ..chlorine gas
- Dd ..dechlorination
- Dh ..hypochlorites
- Ds ..free residual chlorine
- Dx ..chlorine dioxide
- Dz ..ozone
- Do ..Other means

F - Filters
- Fa ..anthrafilt
- Fc ..roughing or contact
- Fd ..diatomaceous earth
- Fg ..gravity (slow)
- Fp ..pressure
- Fr ..gravity (rapid)
- Fs ..sand
- Fz ..zeolite

K - Chemical dosage for corrosion correction or water stabilization
- Kc ..phosphate compounds
- Kg ..chlorine gas
- Kh ..hypochlorite
- Ko ..sodium silicate
- Kp ..alkali feed for pH adjustment

M - Mixing device or tank
- Ma ..air agitation
- Mb ..baffle mix
- Mh ..hydraulic (standing wave flume)
- Mi ..injection or pump suction
- Mp ..slow mechanical mix
- Ms ..patented sludge blanket
- Mt ..rapid mechanical mix
- (MtpsSv)..."Liquon Reactor": "Accelator"; or "Precipitator"

Treatment or Device (continued)

N - Ammoniation
- Nc ..ammonium compound
- Ng ..ammonia gas

R - Recarbonation

S - Sedimentation
- Sb...basins, baffled (other than inlet or outlet)
- Sc...covered basins (other than housed)
- Sm..mechanical sludge removal
- So...open basin (may be in plant building)
- Sv...upflow cylindrical tanks
- (MtpsSv).."Liquon Reactor"; "Accelator"; or "Precipitator"

T - Chemical taste and odor control
- Tc ..activated carbon
- Td ..chlorine dioxide
- Ts ..sulfur dioxide
- Tz ..ozone
- To ..other

V - Fluoride adjustment
- Va ..hydrofluosilicic acid
- Vs ..sodium silicofluoride
- Vt...sodium fluoride
- Ve ..ammonium silicofluoride
- Vo ..other fluorides
- -V ...fluoride reduction
- $V_{1.2}$ - 1.2 ppm natural fluoride

Column 11 - Distribution Storage

Top-line Entry - Pumped to Mains..storage of finished water in the distribution system area that must be pumped into mains (clearwells, underground or low level storage, etc.)

Bottom-line Entry - Elevated..storage of finished water in the distribution system area that will flow into mains by gravity (elevated tanks, standpipes, high level reservoirs, etc.).

Water storage in impounding reservoirs or balancing reservoirs on long supply conduits not included.

Column 12 - Improvements Needed

Improvements currently needed to provide adequate service. The following codes are used:

- N - None
- U - Source, underground
- S - Source, surface
- M - Transmission
- P - Pumping
- T - Treatment
- G - Ground storage
- L - Elevated storage
- D - Distribution system
- O - Other

ALASKA

INVENTORY OF MUNICIPAL WATER FACILITIES

STATE: ALASKA | DATE: Jan. 1, 1958 | PAGE: 1 of 2

COMMUNITY	1950 Population: Estimated Population Served	Year Oper. Started: Present Supply	Present Treatment Plant	OWNERSHIP	Number of Services: Number of Meters	LAB CONTROL	SOURCE OF SUPPLY	Safe Yield Impounded: Maximum Dependable Draft (Gr. water) MGD	Rated Plant Capacity: Average Plant Output MGD	TREATMENT	Dist Storage: Pumps to Mains	Gravity to Mains MG	IMPROVEMENTS NEEDED	LINE NO
1	2	3		4	5	6	7	8	9	10	11		12	
ANCHORAGE	11,254	1956	M		8,000	A	Ship Creek and	6.700	A	DeV	A		UTG	1
	25,805	1956	-		0	-	new drilled well	A	A	-	0.200		-	
ANGOON	429	A	M		10	A	Muskeg Swamp	A	-	None	A		USW	2
	A	-	-		A	-	Drainage	-	A	-	A		TD	
BETHEL	651	1956	P		A	N	Kuskokwim River	A	A	Dh	0.006		WPT	3
	A	A	-		A	-	-	-	A	-	A		GD	
COLLEGE-University of Alaska	424	A	M		A	N	3 dug wells	-	-	None	A		T	4
	400	-	-		A	-	in mine adit	A	A	-	A		-	
CORDOVA	1,165	A	M		A	N	Weals Lake and	A	A	Do	A		T	5
	1,250	A	-		A	-	Murchison Falls	-	A	-	A		-	
CRAIG	374	A	M		A	A	Small Creek and	A	-	None	A		TD	6
	A	-	-		A	-	Diversion Dam	-	A	-	0.050		-	
DOUGLAS	699	A	M		A	A	Surface	A	A	Dh	A		SWT	7
	700	A	-		A	-	-	-	A	-	A		LD	
FAIRBANKS	5,771	A	M		A	A	Deep wells	-	1.000	P-ClDeWpSoFs	A		A	8
	3,000	A	-		A	-	-	A	0.500	-	1.000		-	
FAIRBANKS-Arctic Water Service	-	A	P		A	A	Driven well	-	-	None	A		WTD	9
	1,500	A	-		A	-	-	A	A	-	A		-	
FAIRBANKS-Johnson's Pioneer Wells	-	A	P		A	A	Driven well	-	-	None	A		WTD	10
	1,500	-	-		A	-	-	A	A	-	A		-	
FAIRBANKS-Lee's Well Spring Water Service	-	A	P		A	A	Spring	-	-	None	A		WTD	11
	1,000	-	-		A	-	-	A	A	-	A		-	
HAINES	338	A	M		A	A	Muskeg Swamp	A	-	None	A		SWT	12
	475	-	-		A	-	Drainage	-	A	-	A		LD	
HOONAH	563	A	M		A	A	Surface	A	-	None	A		USTD	13
	422	-	-		A	-	-	-	A	-	A		-	
HYDABURG	353	1935	M		A	A	Small Creek	A	-	None	A		WTLD	14
	A	-	-		A	-	-	-	A	-	A		-	
JUNEAU-Sentter Supply	5,956	A	M		A	A	Ground and surface	A	A	Do- ground	A		SWTD	15
	7,000	A	-		A	-	-	A	A	none- surface	A		-	
JUNEAU-West Gastineau Utilities	-	A	P		34	A	Stream	A	A	Dh	A		SWTD	16
	120	1955	-		0	-	-	-	A	-	A		-	
KAKE	376	A	M		A	A	Muskeg Pond	A	-	None	A		UWP	17
	A	-	-		A	-	-	-	A	-	A		TD	
KETCHIKAN	5,335	1906	M		1,880	N	Ktn. Lakes; Carlanna	16.100	A	Do	A		A	18
	7,800	1956	-		A	-	Lake, & Headley Creek	-	A	-	0.025		-	
KLAWOCK	404	1935	M		A	A	Diversion Dam	A	-	None	0.000		UWTD	19
	400	-	-		A	-	-	-	A	-	0.000		-	
KODIAK	1,710	A	M		A	A	2 reservoirs	A	A	Do	A		T	20
	2,200	A	-		A	-	-	-	A	-	A		-	
METLAKATLA	817	A	M		A	A	Blue Lake	A	-	None	A		T	21
	A	-	-		A	-	-	-	A	-	A		-	
MOUNTAIN POINT	109	1939	P		A	A	Impounded	A	-	None	A		WTD	22
	A	-	-		A	-	-	-	A	-	A		-	
NENANA	242	A	A		A	A	Ground	-	A	Do	A		UWT	23
	A	A	-		A	-	-	A	A	-	A		GD	
NOME-Bronson's Water Delivery	1,876	A	P		A	A	Dug well	-	-	None	A		UWTD	24
	1,000	-	-		A	-	-	A	A	-	A		-	
NOME-Moonlight Water Company	-	A	P		A	A	Spring and	A	A	Dh	A		A	25
	1,500	A	-		A	-	reservoirs	A	A	-	A		-	
NOME-Pioneer Water Delivery	-	A	P		A	A	Drilled well	-	-	None	A		UWTD	26
	1,000	-	-		A	-	-	A	A	-	A		-	
PALMER Source # 1	800	A	M		A	A	2 deep wells	A	A	Dh	A		T	27
	900	A	-		A	-	2 reservoirs	A	A	-	A		-	
PALMER Source # 2	-	A	P		A	A	Infiltration gallery	-	A	Dh	A		A	28
	A	A	-		A	-	-	A	A	-	A		-	
PELICAN	187	1947	M		A	A	Artificial lake	A	-	None	A		T	29
	186	-	-		A	-	(2 streams)	-	A	-	A		-	
PETERSBURG	1,619	A	M		A	N	Impounded	A	A	Dh	A		T	30
	1,605	A	-		A	-	-	-	A	-	A		-	

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INVENTORY OF MUNICIPAL WATER FACILITIES

STATE: ALASKA | DATE: Jan. 1, 1958 | PAGE: 2 of 2

COMMUNITY	1950 Population: Estimated Population Served	Year Oper. Started: Present Supply	Year Oper. Started: Present Treatment Plant	OWNERSHIP	Number of Services: Number of Meters	LAB CONTROL	SOURCE OF SUPPLY	Safe Yield Impounded: Maximum Dependable Draft (Gr. water) MGD	Rated Plant Capacity: Average Plant Output MGD	TREATMENT	Distr. Storage: Pumps to Mains	Distr. Storage: Gravity to Mains MG	IMPROVEMENTS NEEDED	LINE NO.
1	2	3		4	5	6	7	8	9	10	11		12	
PORT CHILKOOT	125	1931	Δ	Δ		N	Lily Lake	Δ	0.108	P-Fr	0.050		T	1
	Δ	1942	-	Δ		-	-	-	Δ	-	Δ		-	
ST GEORGE ISLAND	187	1914	W		10	Δ	Lake	Δ	-	None	Δ		USM	2
	215	-	-	Δ		-	-	-	Δ	-	Δ		TD	
ST PAUL ISLAND	353	Δ	W	Δ		Δ	Surface	Δ	-	None	Δ		SWT	3
	Δ	-	-	Δ		-	-	-	Δ	-	Δ		LD	
SELDOVIA	437	Δ	M	Δ		Δ	Reservoir	Δ	Δ	Dh	Δ		Δ	4
	450	Δ	-	Δ		-	-	-	Δ	-	Δ		-	
SEWARD	2,114	Δ	P	1,585		Δ	Japp Creek and	Δ	-	None	Δ		STL	5
	2,500	-	-	Δ		-	Marathon Creek	-	Δ	-	Δ		-	
SITKA	1,935	Δ	M	Δ		Δ	Wells	-	Δ	Dc	Δ		USMD	6
	2,200	Δ	-	Δ		-	-	Δ	Δ	-	Δ		-	
SKAGWAY	758	Δ	M	Δ		Δ	Wells	-	Δ	Dc	Δ		UTGD	7
	780	Δ	-	Δ		-	-	Δ	Δ	-	Δ		-	
UNALASKA	173	Δ	Δ	Δ		Δ	Δ	Δ	Δ	Δ	Δ		P	8
	175	Δ	-	Δ		-	-	Δ	Δ	-	Δ		-	
VALDEZ	554	1955	W	Δ		Δ	Δ	Δ	Δ	Δ	Δ		Δ	9
	768	Δ	-	Δ		-	-	Δ	Δ	-	Δ		-	
WHITTIER	627	Δ	M	Δ		Δ	Cove Creek Dam	Δ	-	None	Δ		STD	10
	Δ	-	-	Δ		-	-	-	Δ	-	Δ		-	
WRANGELL	1,269	1955	M	Δ		N	Lake	Δ	Δ	Dc	Δ		Δ	11
	1,269	1955	-	Δ		-	-	-	Δ	-	Δ		-	
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PLACES WITH NO COMMUNITY WATER SUPPLY

ALASKA

LOCATION	1950 CEN POP
AFOGNAK ALASKA	158
AKIACHAK ALASKA	179
AKIAK ALASKA	168
ALAKANUK ALASKA	140
ALEKNAGIK ALASKA	153
ANIAK ALASKA	142
AUKE BAY ALASKA	295
BARROW ALASKA	951
BEAVER ALASKA	101
BIG DELTA ALASKA	155
CANDLE ALASKA	105
CHIGNIK ALASKA	253
CLARKS POINT ALASKA	128
CURRY ALASKA	183
DEERING ALASKA	174
DILLINGHAM ALASKA	577
EEK ALASKA	141
EGEGIK ALASKA	119
EKWAK ALASKA	131
ELIM ALASKA	154
FORT YUKON ALASKA	446
GALENA ALASKA	176
GAMBELL ALASKA	309
GLENALLEN ALASKA	300
GOODNEWS BAY ALASKA	100
HEALY FORK ALASKA	102
HOLY CROSS ALASKA	157
HOMER ALASKA	307
HOOPER BAY ALASKA	307
KALSKAG ALASKA	139
KALTAG ALASKA	121
KARLUK ALASKA	144
KENAI ALASKA	321
KIANA ALASKA	181
KING COVE ALASKA	162
KIVALINA ALASKA	117
KOTZEBUE ALASKA	623
KOYUK ALASKA	134
KWETHLUK ALASKA	242
KWIGILLINGOK ALASKA	245
KWIGUK ALASKA	160
MCGRATH ALASKA	175
MINTO ALASKA	152
MOUNTAIN VILLAGE ALASKA	221
MOUNT EDGECUMBE ALASKA	1,147
NAKNEK ALASKA	174
NOATAK ALASKA	326
NONDALTON ALASKA	103
NOORVIK ALASKA	248
NORTHWAY ALASKA	196
NULATO ALASKA	176
OLD HARBOR ALASKA	121
OUZINKIE ALASKA	177
POINT HOPE ALASKA	264
QUINHAGAK ALASKA	194
RUBY ALASKA	132
SAINT MICHAEL ALASKA	157
SAND POINT ALASKA	107
SAVOONGA ALASKA	249
SCAMMON BAY ALASKA	103
SELAWIK ALASKA	273
SHAGELUK ALASKA	100
SHAKTOOLIK ALASKA	127
SHISHMAREF ALASKA	194
SHUNGNAK ALASKA	141
SLEETMUTE ALASKA	120
SUTTON ALASKA	200
TALKEETNA ALASKA	106
TANACROSS ALASKA	137
TANANA ALASKA	228
TELLER ALASKA	269
TENAKEE SPRINGS ALASKA	140
TULUKSAK ALASKA	116
TUNUNAK ALASKA	112
TYONEK ALASKA	132
UNALAKLEET ALASKA	469
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